

J. H. Barker,

Shutter Worker.

Patented Aug. 11, 1868.

N^o 80,799.

Fig 1

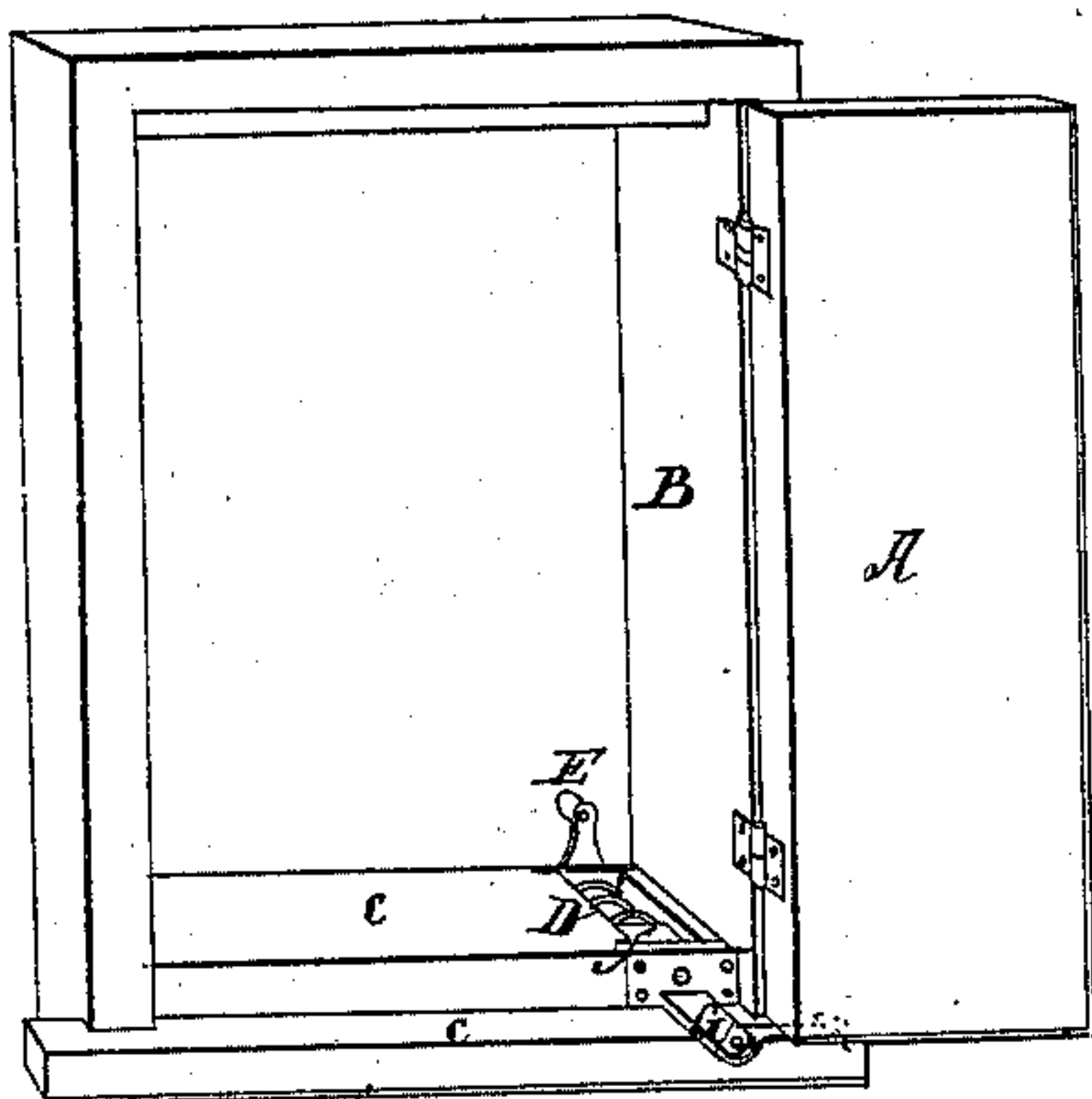


Fig 2

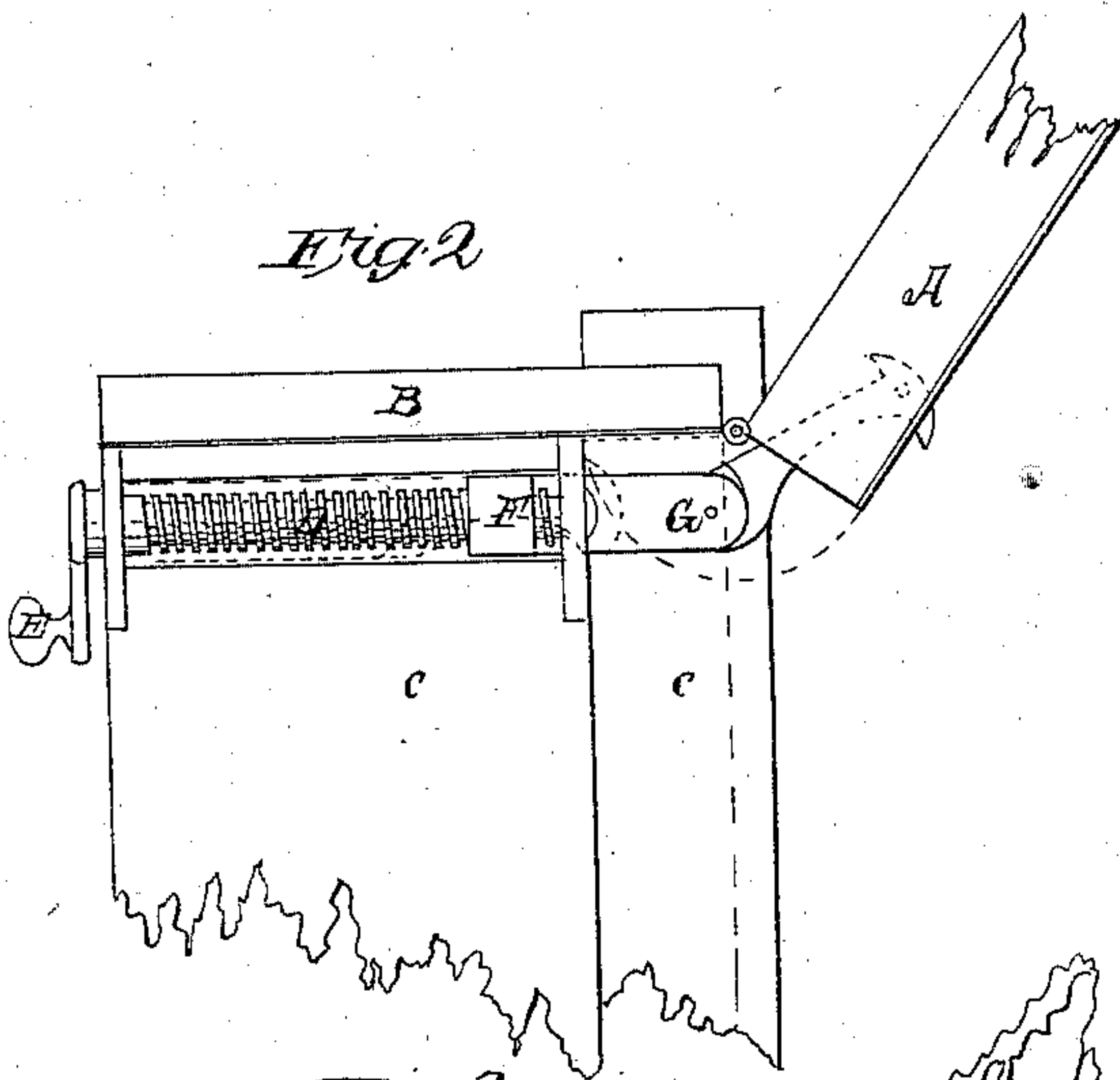
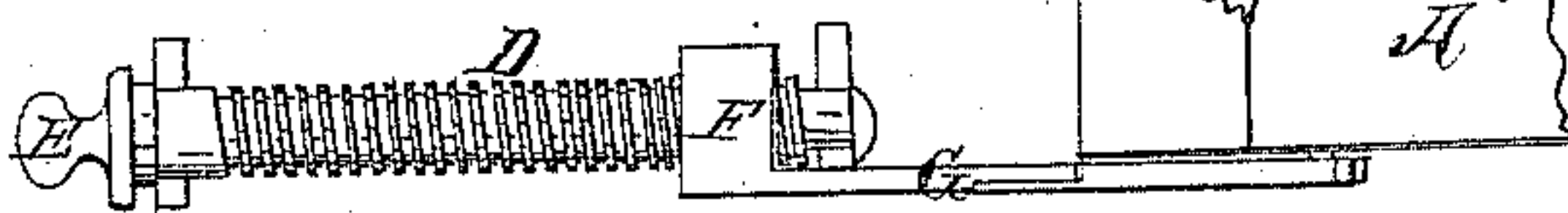


Fig 3



Witnesses:
M. H. Howe.
J. Chipper.

Inventor:
Jas H. Barker.

United States Patent Office.

JAMES H. BARKER, OF WASHINGTON, DISTRICT OF COLUMBIA, ASSIGNOR
TO HIMSELF AND D. R. B. NEVINS, OF THE SAME PLACE.

Letters Patent No. 80,799, dated August 11, 1868.

IMPROVEMENT IN SHUTTER-OPERATORS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JAMES H. BARKER, of Washington, in the District of Columbia, have invented an Improvement in the Devices hitherto Employed in Opening and Closing Window-Blinds at the inner side; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

Similar letters indicate corresponding parts.

Figure 1 is a perspective view of window and blind with my invention applied thereto.

Figure 2 is a top view, looking down from above, representing the application of my invention to the window and blind or shutter.

Figure 3 is a side view of the same.

My invention consists of an improvement in the methods formerly employed for operating window-blinds or shutters at the inner side, or within the apartment to which they are attached; and its object is to obtain a more serviceable and compact device than the ones hitherto in use for that purpose, so that there will be no necessity of changing the proportions or relations of any part of the window-casing or shutters in the application of the mechanism which opens or closes the same.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A represents the blind or shutter, attached by hinges in the usual way. B is the window-casing C is the sill.

Within the sill C a screw-shaft, D, is longitudinally fitted. The inner end of the said shaft, which extends within the apartment, has attached to it a crank, E. On the shaft D a nut, F, is fitted, to which is attached a jointed bar, G, the end of which is secured (in such a manner as to allow rotary motion) to the bottom of the blind.

The operation is as follows:

When the crank E is turned, the screw-shaft, of course, causes the nut F to move outward or inward, according to the direction of the force applied; that is to say, when the crank E is turned from right to left, the nut F moves outward, when turned from left to right, inward.

The motion communicated to the nut F actuates the jointed bar G, to which it is attached, and the jointed bar operates the shutter, causing it to open or close, according to the direction in which the crank is turned, and firmly holds it in its position, when either partially or wholly open.

The end of the outer limb of the said jointed bar G is provided with a bolt, which fits a socket on the bottom of the shutter A, so that the said shutter, when open, can be lifted from its hinges, and also disengaged from the jointed bar G at the same time. As the outer limb of the jointed bar G passes under the shutter, it is almost entirely out of sight when the shutter is open.

The outer limb of the jointed bar G is made straight on one side, and curved on the other. The advantage of this mode of construction is this: When the shutter is opened or shut, the curvilinear shape of the outer limb of the jointed bar G allows it to pass in and out of the sill C, through an opening of the same size as that required by the inner limb of the bar G, so that, when the shutter is open, the opening in the sill is entirely filled up by the inner limb of the jointed bar G, thus excluding wind, rain, and snow, and the action of the weather.

As the screw-shaft D and jointed bar lie in the same straight line, perpendicular to the sill, it is impossible that a force applied from the outside could acquire lever power from the form of the jointed bar, and thus wrench or dislocate the mechanism.

I am aware that devices are in use for the opening and closing of window-blinds or shutters within the

apartment to which they are attached, by means of a crank and screw-shaft, but these devices, as far as I am aware, have been arranged in a different manner from my own, and require much more space for the actuating-mechanism.

I do not claim, irrespective of the means employed, opening or closing window-blinds or shutters on the inner side of an apartment; nor do I claim the crank E, the screw-shaft D, or the nut F, or the combination of the said shaft D and nut F, or any part thereof; but

I do claim as new, and desire to secure by Letters Patent—

The jointed bar G, constructed in the form herein set forth, and applied to the window-blind and casing, substantially as and for the purposes set forth.

JAS. H. BARKER.

Witnesses:

M. H. STOWE,

J. RUPPERT.